

## Greater Farallones National Marine Sanctuary

# Economic Contributions from Recreational Fishing in Greater Farallones National Marine Sanctuary, 2010 - 2012

The Office of National Marine Sanctuaries has prepared the ***Economic Impact of the Recreational Fisheries on Local County Economies in Greater Farallones National Marine Sanctuary 2010, 2011 and 2012***. This report estimates the economic contribution of recreational fishing within Greater Farallones National Marine Sanctuary (GFNMS) using data from the State of California's Recreational Fishing Statistics Program (CRFS) and economic modeling to estimate total annual expenditures. These expenditures are derived by taking estimates of person-days, organized by mode of access (e.g. shore, private - rental boat and commercial passenger vehicles), from CRFS and multiplying by NOAA Fisheries' expenditure profiles by mode of access.

### How many jobs?

Recreational fishing within GFNMS generated **roughly 200 jobs** annually from 2010 to 2012. Each year from 2010 through 2012, the GFNMS local economies saw, on average, an additional **\$10.3 million in income** as a result of recreational fishing in the sanctuary.

### How much output?

Based on the 3-year average from 2010 to 2012, the total economic impact from recreational fishing in GFNMS translates to **\$28.4 million in output** and **\$17.5 million in value added** from recreational fishing expenditures. (See figure below).

**Map of Greater Farallones National Marine Sanctuary**



## The annual average contribution of recreational fishing in Greater Farallones National Marine Sanctuary is...

**\$28.4  
Million**

**Output** of supplies and value-added to supplies

Such as line, steel and the value of converting supplies to a fishing rod.

**Value-Added** from production of goods and services

Such as turning supplies (or inputs) into a final good or service.

**\$17.5  
Million**

**\$10.3  
Million**

**Income** to business owners and employees

Full and part-time **jobs**

**217**

## How do the economic indicators vary over the study period?

The table to the right presents the economic impacts for each year of the study period and their average. Over each year of the study period, the economic impacts improved, and were greatest in 2012.

## How much are people spending to fish recreationally?

It depends on the mode of fishing and the number of person-days fishing. The table to the right shows the total expenditures of all people for all person-days over the study period, organized by fishing mode. **Each year, \$16.6 million, on average, is spent on trip-related expenditures, and \$7.6 million on durable goods in the study area.**

Durable goods are goods that do not wear out quickly and typically last for a long period of time, such as a boat. Fuel or fish bait are examples of trip-related expenditures.

Economic Impact of Annual Total Expenditures: 2010-2012 and 3-year average (2014 dollars)				
Measure	2010	2011	2012	Average
Output	\$23,171,252	\$24,566,520	\$37,527,599	\$28,421,790
Value Added	\$14,285,672	\$15,143,861	\$23,147,600	\$17,525,711
Labor Income	\$8,358,139	\$8,892,135	\$13,598,231	\$10,282,835
Employment	174	189	289	217

Expenditures by Mode of Access: 2010-2012 and 3-year average (2014 dollars)				
Expenditure Type	2010	2011	2012	Average
<b>Trip Mode of Access</b>				
Shore	\$2,013,003	\$1,623,017	\$3,236,833	\$2,290,951
Private - Rental Boat	\$5,581,020	\$4,442,657	\$6,718,196	\$5,580,624
Commercial Passenger Fishing Vessel (CPFV)	\$5,612,129	\$8,245,296	\$12,286,585	\$8,714,670
<b>Total Trip Related Expenditures</b>	<b>\$13,206,152</b>	<b>\$14,310,970</b>	<b>\$22,241,613</b>	<b>\$16,586,245</b>
Durable Goods	\$6,986,390	\$6,357,637	\$9,451,680	\$7,598,569
<b>Trip Related + Durable Good Expenditures</b>	<b>\$20,192,542</b>	<b>\$20,668,607</b>	<b>\$31,693,293</b>	<b>\$24,184,814</b>

## What does this mean to me?

**Recreational Fishing** in Greater Farallones National Marine Sanctuary **results in economic benefits** accruing for local California economies.

## More Information:

A complete copy of the report is available at:  
<http://sanctuaries.noaa.gov/science/socioeconomic/farallones/pdfs/gfnms-rec-report.pdf>

Dr. Vernon R. (Bob) Leeworthy  
 Chief Economist  
 Office of National Marine Sanctuaries  
[Bob.leeworthy@noaa.gov](mailto:Bob.leeworthy@noaa.gov)

Dr. Danielle Schwarzmann  
 Economist  
 Office of National Marine Sanctuaries  
[Danielle.schwarzmann@noaa.gov](mailto:Danielle.schwarzmann@noaa.gov)

## Definition of Key Terms (adapted from RecFin, 2014 and Day, 2011)

**Person-Days** –The number of days (not trips) a person fishes.

**Commercial Passenger Fishing Vessel (CPFV)** –There are two categories. The first is a charter boat, which operates under charter for a specified price, time, etc. A party boat is a boat on which fishing space and privilege are provided for a fee per angler.

**Private-Rental Fishing** –A private boat is defined as belonging to an individual; it is neither for rent nor for transporting paying passengers. A rental boat is defined as a boat that is rented without crew or a guide; it does not transport paying passengers.

**Shore Mode Fishing** –Fishing accessed on beaches, banks and man-made structures.

**Employment** –The total annual average jobs. This includes the self-employed in addition to wage and salary employees, and all full-time, part-time and seasonal jobs, based on a count of full-time and part-time job averages over twelve months.

**Labor Income** – Is equivalent to employee compensation + proprietor (business owner) income

**Intermediate Inputs**- Goods and service required to create a product.

**Output** – The total value of an industry's production, comprised of the value of intermediate inputs and value added.

**Value Added** –Value added demonstrates an industry's value of production over the cost of the goods and services required to make its products. Value Added is often referred to as Gross Regional Product.